

A Global Perspective on Preparing for the Technology and Innovation Journey

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The Challenge?

Preparing a Digital Generation . . .



MISSION STATEMENT

ISTE advances excellence in learning and teaching through innovative and effective uses of technology.



On the Cutting Edge of Technology and Learning

- A Bit About ISTE
- A Bit About You
- What's New & What's True
- Technology & Innovation in Learning
- The Journey & Your Companions



What does ISTE do?

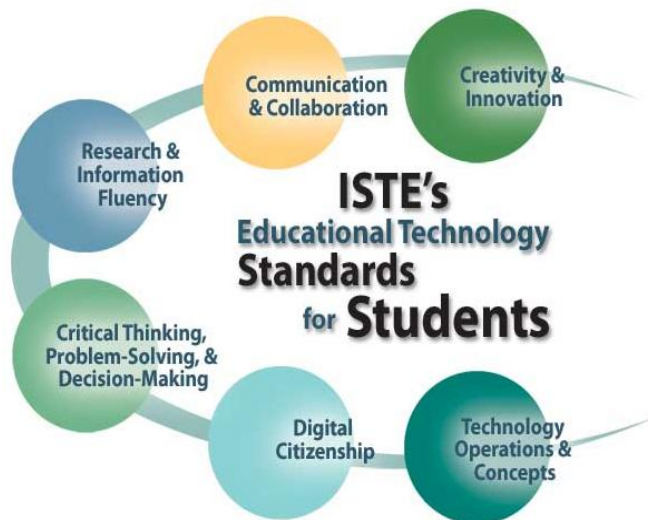
Premier International Organization for ICT in Primary and Secondary Schools

ISTE Vision: *ISTE advances excellence in learning and teaching through innovative and effective uses of technology.*

- ISTE builds capacity in individuals and institutions to adapt
- ISTE provides thought leadership for digital-age schooling and for 21st Century learning, both formal and informal
- ISTE advocates
- ISTE connects the educational technology community
- ISTE believes the corporate sector is a legitimate partner
- ISTE does almost everything with partners
- ISTE is in the trenches



ISTE's Global Digital-Age Skills

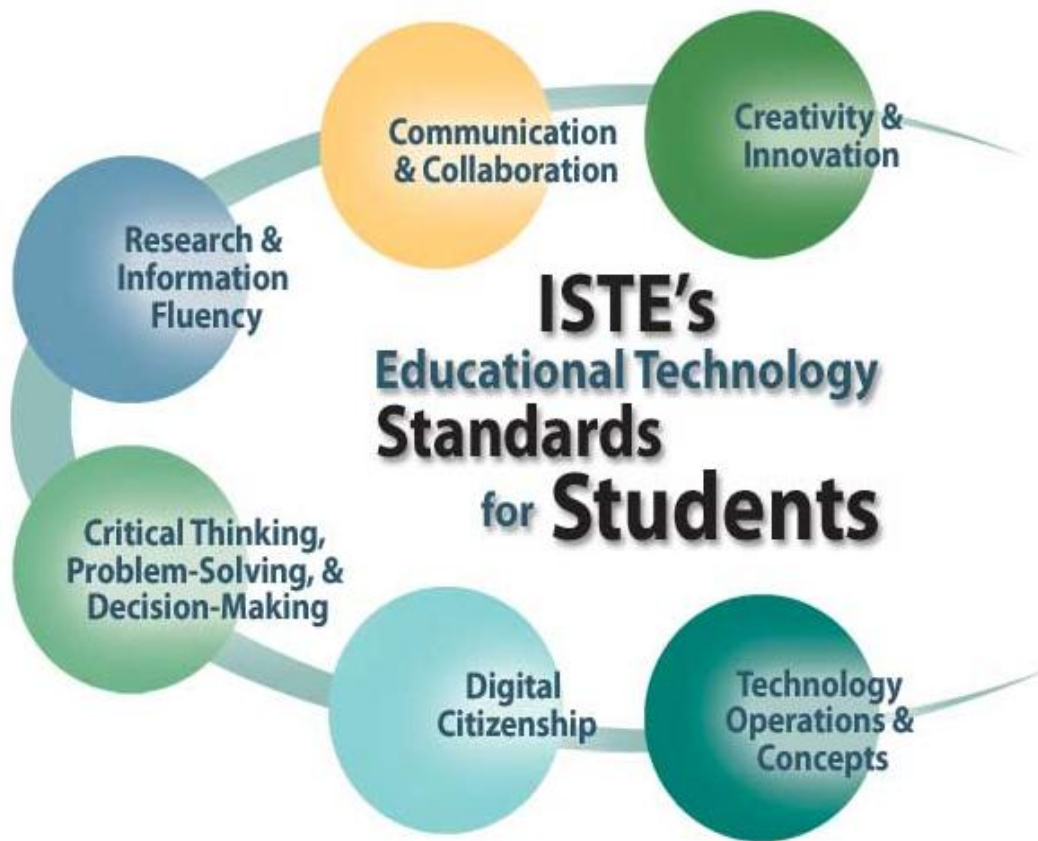


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ISTE Global Digital-Age Learning Skills



- ***Creativity and Innovation***
- ***Communication & Collaboration***
- ***Research & Information Fluency***
- ***Critical Thinking, Problem-Solving, & Decision-Making***
- ***Digital Citizenship***
- ***Technology Operations and Concepts***

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NETS (U.S.) - SOL (Australia)

- | | |
|---|---|
| <ul style="list-style-type: none">• Creativity and Innovation• Communication and Collaboration• Research and Information Fluency• Critical Thinking, Problem-Solving & Decision-Making• Digital Citizenship• Technology Operations | <ul style="list-style-type: none">• Creating with IC• Communicating with ICT• Inquiring with ICT• (See National Goals for Schooling in 21st C)• Ethics Issues and ICT• Operating ICT |
|---|---|

NETS

–

National Goals

Critical Thinking, Problem-Solving & Decision-Making

Students use critical thinking skills to plan and conduct research, manage projects, solve problems and make informed decisions using appropriate digital tools and resources. Students:

- a. identify and define authentic problems and significant questions for investigation.
- b. plan and manage activities to develop a solution or complete a project.
- c. collect and analyze data to identify solutions and/or make informed decisions.
- d. use multiple processes and diverse perspectives to explore alternative solutions.

National Goals for Schooling in 21C

When students leave schools they should:

have the capacity for, and skills in, analysis and problem solving and the ability to communicate ideas and information, to plan and organise activities and to collaborate with others.

Advocacy

- ISTE Government Affairs
 - Grassroots Efforts
 - Congress, Admin, Agencies
 - Association & Coalition Ldrshp
 - Media, Summits, Speaking
 - Consultancy, Advisory

Advocate for resources and policies supporting the effective use of technology to improve teaching, learning, and leadership.

www.iste.org/advocacy





■ *When organizations
collaborate in education,
children win!*

ISTE 2010 - Denver

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NECC 2009 Resources

- [ISTEvision](#) for video-on-demand sessions
- [ISTE Connects](#) for conference blogs and news
- [Daily Leader](#) archives of show newspaper
- [NECC 2009 Quick Links](#) for additional resources

ISTE 2010* is the same premier event that has Ed Tech professionals worldwide returning year after year.

"When my district offered to send me to the conference in 2008, I had no idea how it would transform the culture of our school." – Wendy Stephens, Alabama

*Formerly the National Educational Computing Conference (NECC).



The International Society for Technology in Education ([ISTE](#)) is the premier membership association for educators and education leaders engaged in improving teaching and learning by advancing the effective use of technology in PK-12 and teacher education.

Photo © Bob Ashe for VISIT DENVER

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ICTLT 2010

March 3 - 6

Singapore

[**www.ictlt.com**](http://www.ictlt.com)

ACEC 2010

April 6 - 9

Melbourne

[**http://acec2010.info**](http://acec2010.info)



Building capacity for transformation

“It is not the strongest of the species that survives, nor the most intelligent; it is the one that is most adaptable to change.”

Charles Darwin



Who is ISTE?

Premier International Organization for ICT in Primary and Secondary Schools

- **Worldwide Network of Leaders in Education and Technology**
- **20,000 Direct Individual Members**
- **80+ Geographic Affiliates (ACCE, TCEA, ATLE, ICIE)**
- **Reach of 150,000+ Individuals with Affiliates**
- **Corporate Partners; ISTE 100 Corporate Member Program (60)**
- **Special Interest Groups (20)**
- **Array of Strategic Allies (UNESCO, Ministries of Ed, Assoc)**
- **Advocates of Effective Digital-Age Schooling Worldwide**

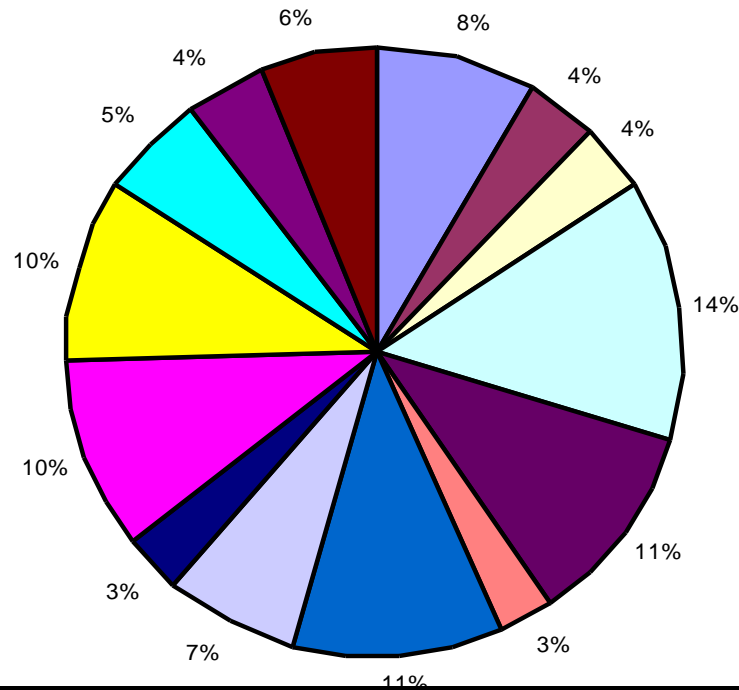
www.iste.org



ISTE Members

- Individuals
- Affiliates
- Institutions
- ICT and Ed Tech Providers


ISTE Members



Computer Science	English/2nd Language	Health/PE	Info & Comm Tech
Language Arts	World Language	Math	Not Applicable
Performing Arts	Science	Social Studies	Special Education
Visual Arts	Vocational/Tech Ed		

ISTE 100 – Corporate Members

- Adaptive Curriculum
- Apple
- Cisco Systems
- Discovery Education
- Intel
- NetTREKKER
- Promethean
- SANAKO
- Smart Technologies
- Adobe
- Atomic Learning
- DELL
- HP
- Microsoft
- Oracle Education
- Pearson
- Reile
- Scholastic



■ *And, a bit about
you ...*

ISTE's Work Globally

- **Consultancy for Defining ICT Expectations**
- **Development of PD Leaders and ICT Mentors**
- **Leadership Development for Technology**
- **Strategic Planning for Digital-Age Education**
- **Networking Events & Community Building**



The Role of Central Government

Case Studies

- **China - Comprehensive, Policy Driven**
 - **India - Positioning for Expansion**
 - **Jamaica, Philippines - Fit for Export**
 - **Bermuda, Bahamas - Public/Private**
 - **Puerto Rico – ICT Integration Mentors**
 - **Singapore - Does Technology Right**
-

What's New?

■ *What is different today in schooling and learning compared to a decade ago?*

What's New?

- **Globalization, multiculturalism, competitiveness**
- **Different expectations and learner styles**
- **A learning landscape that is increasingly digital**
- **New tools and new structures**
- **Implications of the continuing digital divide**
- **Accountability and competition**

What's True?

- *National boundaries don't really matter ...*

What's True?

National Boundaries Do Not Matter:

- **Expectations for ICT are Global**
- **Visionary Leadership is Key**
- **Essential Conditions are Essential**
- **Skilled Teachers are Critical**
- **Measurement Must Inform Transformation**



Essential Conditions are Essential...

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Necessary conditions to effectively leverage technology for Learning...

- Shared Vision
- Empowered Leaders
- Implementation Planning
- Consistent and Adequate Funding
- Equitable Access
- Skilled Personnel
- Ongoing Professional Learning



Essential Conditions are Essential

Necessary conditions to effectively leverage technology for Learning...

- Technical Support
- Curriculum Framework
- Student-Centered Learning
- Assessment and Evaluation
- Engaged Communities
- Support Policies
- Supportive External Context



Transforming Learning Environments

Traditional Environments

Emerging Learning Landscape

Teacher directed, memory-focused instruction



Student-centered, performance-focused learning

Isolated work on invented exercises



Collaborative work on authentic, real-work projects

Factual, literal thinking for competence



Creative thinking for innovation and original solutions

Primary focus on school and local community



Expanded focus including digital global citizenship

Isolated assessment of learning



Integrated assessment for learning

Knowledge from limited, authoritative sources



Learner-constructed knowledge from multiple information sources and experiences

Challenges for Leaders

- *Study digital-age learners and what engages them ...*
- *Foster creative and inventive thinking for innovation ...*
- *Understand what tools and strategies are available and why they are important...*
- *Sustain our own learning and R&D ...*
- *Prepare to support an increasingly digital, connected, and multicultural setting ...*
- *Nurture innovation at the heart of learning ...*

What's Better? For Whom?



Thank You!

Contact us at

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Visit us at www.iste.org